



SOD B PRIMO-ANTIOXIDANT®

PROTECTION AT SOURCE



Context

The human body is subjected to an oxidant / antioxidant balance. Free radicals such as reactive oxygen species (ROS), i.e. superoxide anion radical ($O_2^{\cdot-}$), hydrogen peroxide (H_2O_2) and hydroxyl radicals (HO^{\cdot}), are effective oxidants able to synthesize numerous secondary radicals (ROO^{\cdot}).

When over produced and not neutralized, ROS lead to oxidative stress and induce non-reversible damages on body cells such as lipid membranes peroxidation, mitochondria damages, proteins oxidations and DNA alterations.

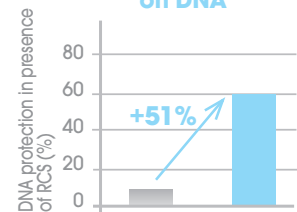


Scientific evidence

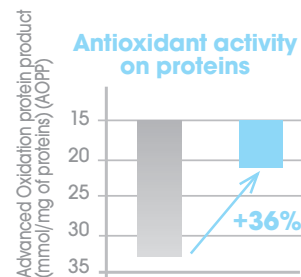
SOD B Primo-antioxidant®, only bioactive SOD available on the market, provides a unique protection thanks to its precursor activity against the source of all oxidative damages in the body. Its benefits are backed up by *in vivo* and *in vitro* scientific assays.

In vitro tests have demonstrated the ability of SOD B Primo-antioxidant® (1mg/mL) to improve DNA protection in presence of ROS. Similarly, *in vivo* studies in an obese hamster model established that SOD B Primo-antioxidant® (15 mg/day) significantly improves antioxidant activity in the body by reducing proteins and lipids oxidation.

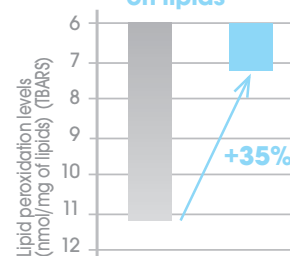
Antioxidant activity on DNA



Antioxidant activity on proteins



Antioxidant activity on lipids



■ Control ■ SOD B Primo-antioxidant®

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Health benefits

As every cell can be attacked by ROS, removal of free radicals by antioxidant compounds may be an effective defense strategy against various human diseases. Antioxidants are the precautionary protection against inflammation, neurological disorders, cardiovascular diseases, diabetes, fibrosis, etc.

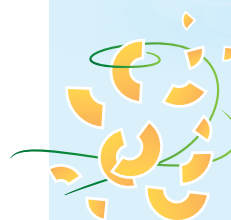
According to an important scientific background, Bionov has developed SOD B Primo-antioxidant® to respond to different nutritional applications. Thanks to its content in the richest source of SOD on the market, SOD B Primo-antioxidant® has several health benefits, whatever the body cell.

SOD B Primo-antioxidant® is an effective body protector which can easily be, thanks to its very specific mechanism of action, associated with usual antioxidants (vitamins, polyphenols, minerals, carotenoids) for additional benefits.

Because Bionov integrates the last technologies in its industrial plant, SOD B Primo-antioxidant® presents a high competitive price adapted to different markets.



*Full scientific dossier on request



SOD B Primo-antioxidant® is the only SOD available orally with health benefits thanks to an effective antioxidant activity. It provides unique protection against oxidative mechanisms, due to its ability to neutralize precursors of cell oxidation.

Specifications

	SOD B Primo-antioxidant®	
Botanical origin	Melon fruits (<i>Cucumis melo</i> L.)	
Active compounds	SOD activity higher than 5,000 IU/g	
Recommended dosage	20-200 mg depending on the application & formulation	
Applications	Grade M Tablets, Pills, Capsules, Softgels	Grade S Sticks, Sachets, Syrup Tisane, Effervescent, Gums

Bibliography

Carillon J, Del Rio D, *et al.* Food Chemistry, 2012.
 Ginoux J, Dreyer A, *et al.* Patents #FR 2716884 & EP0670366, 1995.
 Decordé K, Agne A, *et al.* J. Agric. Food. Chem., 2009.
 Lacan D. Unpublished Work, 1999.

*These statements have not been evaluated by any governmental authorities.
 This product is not intended to diagnose, treat, cure or prevent any disease.*



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